

PIK, I.Sh.; VOLKOVA, M.Ye.

Molding powder L-18-56 for thread parts of high water resistence.
Flast.massy no.2171 '61. (MIRA 14:2)

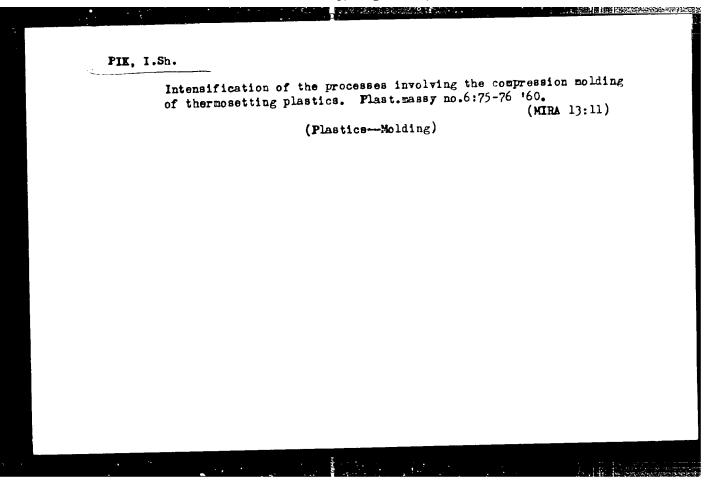
(Karacharovo—Plastics—Molding)

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PIK, I.Sh.; Prinimali uchastiye Skundina, F.I.; LYSENKOVA, R.I.

Quality of products from polytetrafluoroethylene as determined by the conditions of its treatment. Plast.massy no.6:30-32 160.

(Ethylene) (Plastics)

(Ethylene) (Plastics)
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S/191:66/000 005/11/000 B004/B064

AUTHORS:

Pik, I. Sh , Sindarovskaya, A S.

TITLE:

Dependence of Shrinkage of Thermosetting Plastics on the Fres-

sing Direction

PERIODICAL: Plasticheskiye massy, 1960, No. 5, pp 36-39

TEXT: In the introduction the authors state that the shrinkage of plastics, which is of particular importance for the production of high-precision units, has hitherto been toolittle studied. The work of T V Trofimova and N. P. Radikova (Ref. 2) on these problems was checked at the authors' and N. P. Radikova (Ref. 2) on these problems was checked at the authors' alaboratory in 1954. In this connection, anisotropic shrinkage was also laboratory in 1954. In this connection, anisotropic shrinkage was also found. The present paper reports on the shrinkage of samples consisting of a hollow parallelepiped 100 x 100 x 50 mm, and a cylinder of 50 mm in height and diameter on top of it. Three sides of the parallelepiped were 5 mm. the fourth 15 mm thick. The material used was plastic of the K-18-2 (K-18-2) type (produced by extrusion), of the K-214-2 (K-214-2) type, fiber plastic, and aminoplast. Samples were measured at different points in accordance

Card 1/2

Dependence of Shrinkage of Thermosetting Plastics on the Pressing Direction

S/191/60/000/005/011 U21 B004/B064

with standard [XN-1-43 (GKhP-1-43), 16 to 24 hours after pressing. The following results were obtained: Shrinkage of samples changes with charging direction. Shrinkage in the direction of stamp motion is considerably higher than in perpendicular direction. Shrinkage perpendicular to the direction of motion is the same on all four walls, and is 0.5% lower in the parallelepiped than in the cylinder. In the cylinder, shrinkage along the external diameter is higher than along the internal diameter. There are 2 figures, 1 table, and 2 Soviet references

Card 2/2

s/191/60/000/004/007/015 BO1 E/BO58 Pik, I. Sh., Sindarovskaya, A. S. Plasticheskiye massy, 1960, No. 4, Pp. 30-34 Shrinkage of Plastics TEXT: The authors report on their experiments aiming at the prevention of AUTHORS: TEAT: The authors report on their experiments aiming at the prevention of waste on account of excessive shrinkage of molded materials. They compare the magnification of their children took with those presented by A. D. Governor the compare the magnification of their children took with those presented by A. D. Governor the compared by A. D. waste on account of excessive shrinkage of molded materials. They compare the results of their study from 1054 with those presented by A. D. Sokolcv the results of their study from 1754 with those presented by A. D. Radikova (Ref. ?); the results of their study from 1754 with those presented by A. D. Radikova (Ref. ?); T. V. Trofimova and N. P. Radikova (Ref. 3). They state that the characteristic and A. N. Luknitskiy (Ref. 1); T. V. They state that the characteristic and A. N. Kanavets and K. P. Sedova (Ref. 3). TITLE: and A. N. Luknitskiy (Ref. 1); T. V. Trofimova and N. P. Radikova (Ref. 2);

They state that the characteristic state in the molding of the molding transport workers for the effect of the molding relief of the molding transport workers for the effect of the molding relief of the molding transport workers for the effect of the molding relief of the molding transport workers for the effect of the molding relief of the molding transport workers for the effect of PERIODICAL: i. F. Kanavets and K. P. Sedova (Rel.)). They state that the characterivalues obtained by these research workers controlled to the molding temporature on christians are in agreement. values obtained by these research workers for the effect of the molding temperature on shrinkage are in agreement. Contradictory results, however, temperature on shrinkage are in agreement. temperature on shrinkage are in agreement. Contradictory results, nowe were obtained for the influence of the specific pressure applied, its were obtained for the influence of the specific pressure applied, its duration, and the heat treatment of the specimens. The purpose of the duration, and the heat treatment of the specimens and the colonisted to determine the section and the section duration, and the neat treatment of the specimens. The purpose of the authors' study was: 1) to determine the actual and the calculated total authors' study was: 1) aminoplast and of the initial molded metarical abrinks on of voloknit. autnors' study was: 1) to determine the actual and the calculated total to determine the actual and the calculated total and the calculated total shrinkage of voloknit, aminoplast, and of the initial molded materials, aminoplast, and of the initial molded materials, which are widely need but have which are widely need but have shrinkage of voloknit, aminoplast, and of the initial molded materials, and of the initial molded materials, which are widely used but have not V-214-2 (K-214-2) and K-18-2 (K-18-2), which are widely used but have not have investigated as fare 2) to determine the influence of the most important the most important the influence of the most important W-214-2 (K-214-2) and K-18-2 (K-18-2), which are widely used but have I been investigated so far; 2) to determine the influence of the most important conditions of molding (temperature direction of pressure portant conditions of molding (temperature, duration of pressure Card 1/2

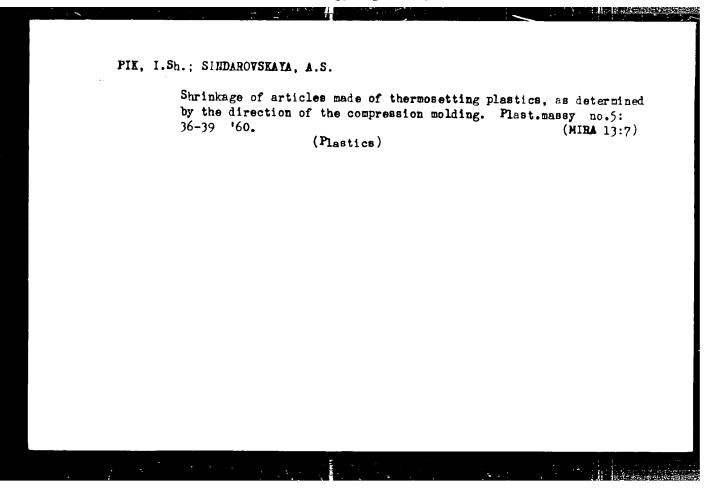
Shrinkage of Plastics

S/191/60/000,004,007,015 **B**016/**B**058

application, preheating by high-frequency current) on shrinkage. For this purpose the authors used three types of specimens: a) standard disc; b) standard block; c) a special bushing (height, 15 mm; outer diameter, 35 mm; inner diameter, 20 mm). Shrinkage was determined from the standards TXT1-43 (GKhP1-43) and calculated from the formulas mentioned in this standard. The duration of pressure application was chosen from FOCT (GOST) or TY (TU). Shrinkage varies in the various directions. The authors recommend the following measures on the basis of their studies: 1) milding should be carried out at a minimum temperature in order to prevent waste owing to excessive shrinkage, but at a maximum preheating of this material in high-frequency current generators or electric heating chambers and at a predetermined maximum duration of pressure application. 2) For the design of products and molds the authors recommend to use the maximum and minimum values of actual shrinkage, which sets in with an increase of the molding temperature by 50°C for phenoplasts and by 35°C for aminoplasts, alone with a reduction of the duration of pressure application to a minimum and with high-frequency preheating. O. I. Lebedeva participated in the experimental part of the study. There are 2 figures, 6 tables, and 3 Soviet

Card 2/2

PIK, I.Sh.; SINDAROVSKAYA, A.S.; Prinimala uchastiye 0.1. IMBEDEVA Shrinkage of plastics. Plast.massy no.4:30-34 '60. (MIRA 13:7) (Plastics)



\$/191/60/000/006/009/015 B004/B054

AUTHOR:

Pik, I. Sh

TITLE:

The Dependence of the Quality of Ptoroplast-4 Products on

Processing Conditions

PERIODICAL:

Plasticheskiye massy, 1960, No. 6, pp. 30 - 3

TEXT: The author discusses some conditions for the processing of Ftoroplast-4 (polytetrafluoro ethylene) to avoid rejects. 1) Cracks often occur in sheets 20-30 mm thick. The author investigated a) the influence of the cooling time in the furnace, b) of preliminary drying or a) preheating of the molded material, and d) of the specific molding pressure Whereas b) and c) exerted no influence, a prolonged cooling in the furnace (4.5 h instead of only 2.5 h) reduced cracking to 40%. A molding pressure of 225 - 250 kg/cm² (instead of 320 kg/cm²) yielded sheets sithout cracks. 2) Cracks in rods (35 x 215 mm) can be avoided by precise dosage. Table 1 shows the mechanical properties of products molded at a pressure of 110 - 350 kg/cm². The properties are constant w thin this

Card 1/2

The Dependence of the Quality of Ptoroplast-4 8/191/60/000/006/009/015 B004/B054

pressure range so that the molding pressure suggested (200 - 250 kg/cm²) is permissible. The shrinkage of sheets, rods, and packing rings was investigated (Table 2), and a molding pressure of 200 - 250 kg/cm2 was again found to be an optimum. The author gives the calculation and data of shrinkage for various dimensions of the product. Table 3 shows that the shrinkage of sheets decreases with increasing thickness. F. I. Skundina and R. I. Lysenkova assisted in this work. There are 3 tables.

Card 2/2

PIK, I.Sh.; NOTKIN, B.M.; PETROV, A.K., red.; ZHURAVSKIY, Ya.B., red.; LUR YE, M.S., tekhn.red.; KOGAH, V.V., tekhn.red.

[Experience in molding articles made of aminoplasts] Opyt pressovenila izdelii iz aminoplastov. Pod obshchei red. A.K. Petrova. Moskva, Gos.nauchno-tekhn.izd-vo khim.lit-ry, 1950.

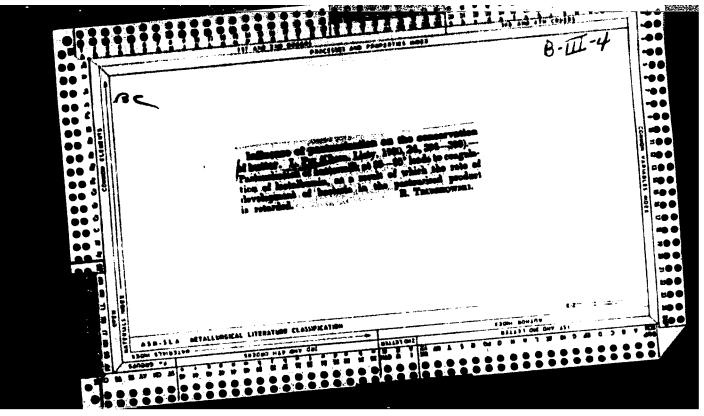
(MIRA 13:9)

(Aminoplastics)

STINA, N.V. [translator]; PIK, I.TS. [translator]; SIROTINA, N.Ye. [translator]; SERGOVANTSKV, B.V. [translator]; MOROZOV, I.I., red.; ALEKSANDROVA, A.A., red.; SVESHNIKOV, A.A., tekhr.red.

[Questions of the reliability of electronic equipment. Collection of articles translated from the English] Voprosy nadezhnosti radioelektronnoi apparatury; sbornik statei. Moskva, Izd-vo
"Sovetskoe radio." 1959. 185 p. (MIRA 13:9)

(Electronic apparatus and appliances)



VORONIN, V.A.; PIK, L.I.; PLONSKIY, S.S.

Practice of using the GD-300 geodimeter. Geod. i kart. no.9:
27-31 S162. (MIRA 15:10)

Practice of creating horizontal control by the trilateration method.

Practice of creating horizontal control by the trilateration method.

(MIRA 16:8)

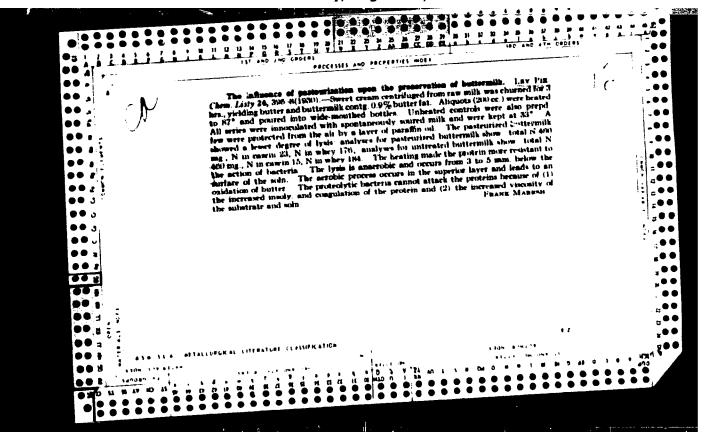
(Triangulation)

T. A.

VORONIN, V.A.; PIK, L.I.; PLONSKIY, S.S.

Testing the GD-300 optical distance meter. Geod.i kart. (MIRA 13:7)

10.6:14-23 Je 160. (Range finders-Testing)





PIK, M.M., red.; SHMIDT, I.L., red.; BORUNOV, N.I., tekhn.red.

[Regulations for operating electrical networks and power plants]Pravila tekhnicheskoi ekspluatat:ii elektricheskikh stantsii i setei. Izd.9. zanovo perer. Moskva, Gosenergoizdat, 1962. 198 p. (MIRA 15:12)

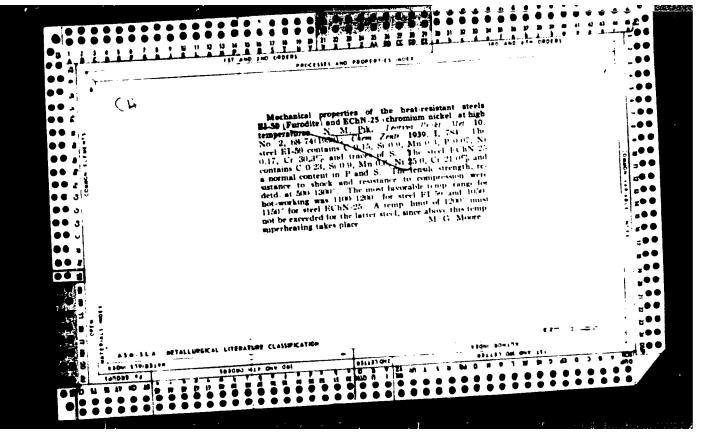
1. Russia (1923- U.S.S.R.)Glavnoye energeticheskoye upravleniye. (Electric power plants) (Electric power distribution)

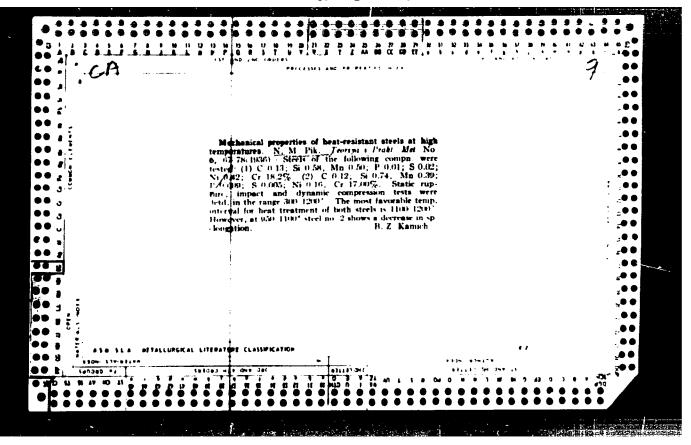
PIK, H. M.

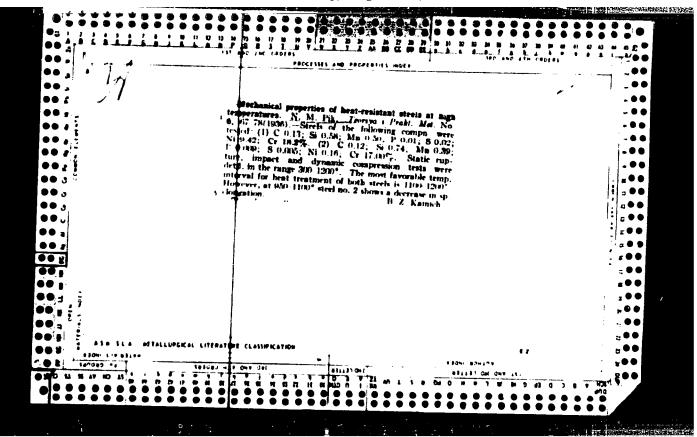
Feed Water Purification

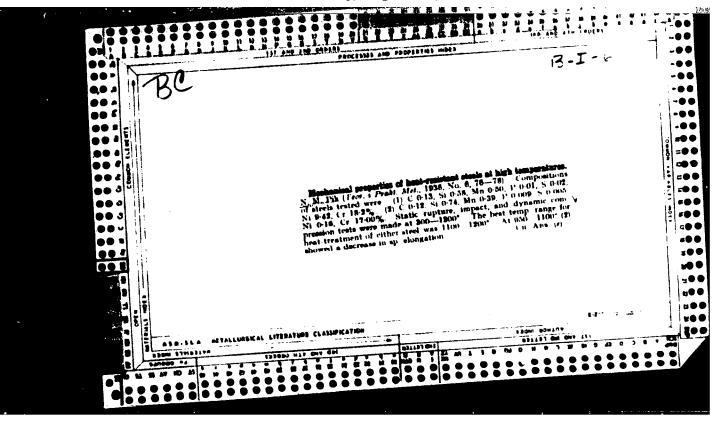
Buibling in leserators of feed pater. Elek. Sta., 3, No. A, 1952. Inch. orders

Monthly List of Hossian Accessions, Library of Concress, Aurost 1909. Upola Dila.









23. 8 . 73

ACC NR: AR6020711

BOURCE CODE: UR/02/3/66, 000/001 10.

AUTHOR: Gershman, I. I., Pik, G. K.

TITLE: Study on the formation and evaporation of fuel films

SOURCE: Ref zh. Dvig vnutr sgor, no. 2, Abs. 2.39.231

REF SOURCE: Tr. Tsentr. n.-1. avtomob. 1 avtomotorn. in-ta, ...p. 7... 1965, 3-29

TOPIC TAGS: fuel, fuel evaporation

ABSTRACT: An experimental study of processes leading to the development and evaporation of a fuel film from a hot surface in an incoming airflow is described. [Translation of abstract] [KP]

SUB CODE: 21/ SUBM DATE: none/

Card 1/1 Who

UDC: 621.436.019.6.001.5

37534 bilikoz l ejo Frofilaktika v svete sovremennyka dannyka. V bo: Zii vsesbyuz S'yezd gigienistov, epidemiologov, Mikrotiologov I infektsionistov 1.1.M.1940 s 135-42

So: Letopie Lurnal nykh Statey, Vol. 37,1949

PIK, Ts.D.; VORONTSOVA, Ye.I.; GORODENSKAYA, Ye.N.; MISHCHENKO, B.B.; GORLIN,

Prevention and pathogenesis of silicosis. Gig. sanit., Moskva No.12: 20-27 Dec 51. (CIML 21:4)

1. Report presented at the Scientific Session of the Institute of Labor Hygiens and Occupational Diseases of the Academy of Medical Sciences held in February 1951.

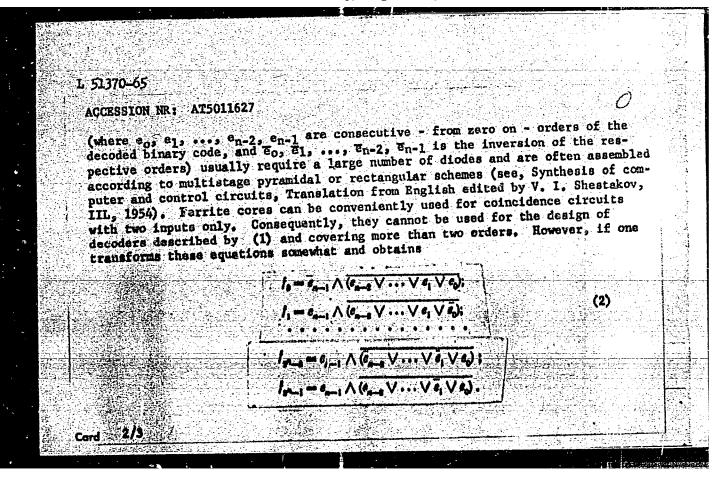
KHROMOV, S. I.: PIK, YE. I.: AKISHIN, P.A.: NIKITINA, L.M.

Ethylcycloheptane

Contact transformation of ethylcycloheptane in the presence of platinized carbon. Vest. Mosk. un 7 No. 2, 1952.

9. Monthly List of Russian Accessions, Library of Congress, October, 1952 1958. Unclassified.

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AUTHOR: Afai	nas'yav, V. A.; Pikalavskiy		8+1
TITLE: Deco	der circuits based on ferri	te-transistor elements	
SOURUS: VSe	soyuznoye soveshchaniye po	Inov takhniki. Lvov. 1962.	Agnithy
elementy avt (Magnetic el puter engine	ements of automatic control ering); trudy soveshchaniya decoder circuit, ferrite	meritel'noy i vychislitel'no i, remote control, measureme a. Kiev, Naukova dumka, 1964 transistor decoder, matrix d	ent and com- , 542-548
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ACCESSION NR: AT5011627

one can then associate to each fk an element which should trigger only in the presence of a pulse not entering into the bracket and in the absence of all the pulses contained within the bracket (the cell is blocked by a single open and (n-1) closed inputs). It is easy to materialize such elements using ferrite toroids. The article presents the theory, design, and operation of such a decoder carrying out the switching logic of a four-order binary code containing 16 rectangular hysteresis loop cores. Other more complex decoders are also discussed. Orig. art. has: 6 formulas and 6 figures.

ASSOCIATION: none

SUBMITTED: 29Sep64

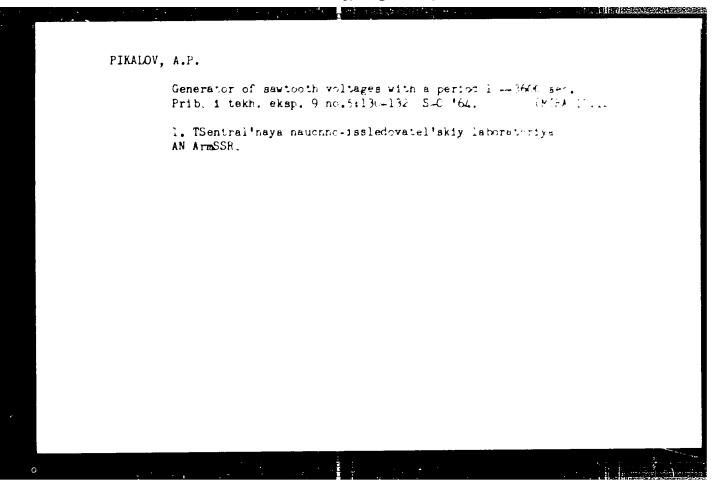
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L 41591-65 EWT(m)/EPF(c)/EPR/EWP(j)/T Pc-4/Pr-4/Ps-4 RPL WW/PM ACCESSION RR: AF5008831 8/0252/65/040/001/0025/0029

AUTHORS: Kocharyan, N. M. (Corresponding member AN ArmSSR); Pikalov, A. P. Kagramanyan, A. V.; Markosyan, E. A.

TITLE: Effect of the degree of elongation of polymethylmethacrylate on the magnitude of the second moment of the miclear magnetic resonance spectrum

±0.4081 AH ArmSSR. Doklady, v. 1:0, no. 1, 1965, 25-29

CPIC TACS: nuclear magnetic resonance, polymethylmethacrylate, polymer riseology

ABSTRACT: The effect of the degree of elongation of polymethylmethacrylate (PMMA) on the magnitude of the second moment of the nuclear magnetic resonance (NMR) spectrum was measured using an autodyne NMR spectrometer with quarts frequency stabilization. The specimens of PMMA were prepared by heating in a thermostat at 1600 for 3 hours, stretched on a dynamometer to a particular value of elongation, and cooled. They were then machined with continuous cooling with scapy water. The magnitude of the second moment was found to increase with increasing elongation (up to 135%). This is explained by ordering of the molecular chains of the polyment which hinders the motion of the hydrogen atoms and, hence, of the muclear magnetic moments. This leads to the increases of local magnetic fields, causing a Cord 1/2

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ACCESSION NR: AP5008831

broadening of the NMR absorption spectrum. The reason for an anomalous decrease of the second moment at elongations in the region of 215% is not clear; perhaps there is some change in the molecular interaction causing the retarding bond motions to be disturbed. The magnitude of the second moment continues to increase with increasing elongation, reaches a maximum at an elongation of 250%, and then decreases for elongations in the range 250-340%. The decrease is attributed to a decrease in the energy of the interchain bonds as a result of the straightening of the chains. Consequently, with increasing elongation rupture of some of the intermolecular bonds occurs, increasing the average intergroup distance. Since the effect of the nuclear magnetic dipoles falls off as 1/ro, there is a sharp decrease of the second moment for large elongations. A block diagram and description of the MMR spectrometer are also presented. The authors thank Kh. B. Pachadshyana for the prepared specimens of oriented PMMA. Orig. art. has: 3 equations and L diagrams.

ASSOCIATION: TeNI fisiko-tekhnicheskaya laboratoriya, Akademii nsuk Armyanskoy SSR (Central Scientific Research Leboratory of Physics and Technology, Academy of Sciences, Armenian S91)

LAPAKHA, A.A., kand.med.nauk; PIK-LEVONTIN, E.M., kand.biolog.nauk; SHEKHINA, N.I., kand.med.nauk

A . To see the first the first water

Salmonella infection in children, mainly in infants. Pediatriia no.2:16-21 162. (MIRA 15:3)

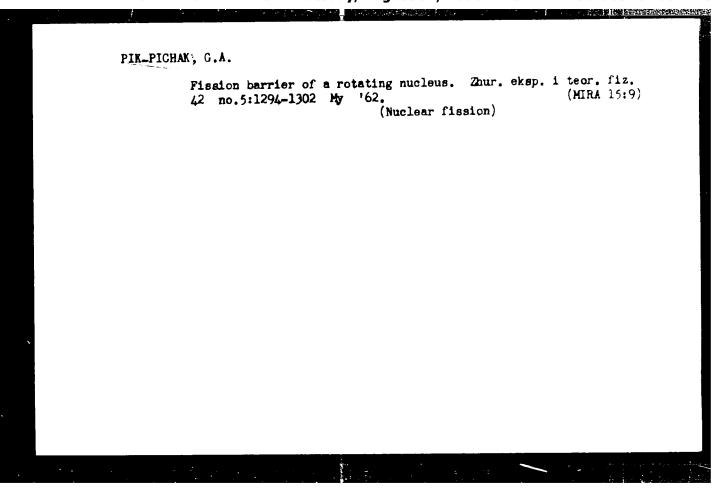
1. Iz kafedry infektsionnykh bolezney u detey (zav. - prof. A.T. Kuz'micheva) Leningradskogo pediatricheskogo meditsinskogo instituta (dir. Ye.P. Semenova) i Detskoy infektsionnoy bol'nitsy (glavnyy vrach K.A. Dudkina) Leninskogo rayona.

(SALMONELLA) (INFANTS.—DISEASES)

GUSARSKAYA, I.L., kand.med.nauk; PIK-LEVONTIN, E.M., kand.biologicheskikh nauk; KOMAKHINA, L.D.; PETROVSKAYA, Z.N.

Clinical and bacteriological characteristics of coli enteritis in children. Sov.med. 24 no.11:20-24 N '60. (MIRA 14:3)

1. Iz Leningradskogo nauchno-issledovatel'skogo padiatricheskogo instituta (dir. - L.S.Kutina) i Detskoy infektsionnoy bol'nitsy (glavnyy vrach A.M.Belyayeva) Leninskogo rayona Leningrads. (INTESTINES...DISEASES)



SOV/110-59-6-9/24

AUTHOR:

Pik-Pichak, A.A., Engineer

TITLE:

The Design of a Solid-Poled Rotor (K raschetu

massivnogo rotora)

PERIODICAL: Vestnik elektropromyshlennosti, 1959, Nr 6, pp 36-44 (USSR)

ABSTRACT:

Card 1/6

Difficulties with damper windings in salient-pole synchronous machines has led to the idea of replacing them by solid poles. This raises the problem of determining the parameters of the equivalent damping circuits existing in these solid poles. The present article offers a solution for the case of a machine without connections between the poles. The process of pole magnetisation by a.c. from the stator side with open field windings is considered. In this case the stator winding may be considered as a source of electromagnetic waves of long wave length and the rotor poles as receivers of energy therefrom. Problems of the propagation of these waves and transmission of energy from stator to rotor can be treated by Maxwell's equations. To determine the rotor parameters it is first necessary to find the equivalent pole resistance relative to the eddy-currents flowing in

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The Design of a Solid-Poled Rotor

it and then to refer this resistance to the stator windings. The equivalent pole resistance may be found by means of Poynting's theory written in the form of expression (1). In this formula the expression for the complex magnetic field intensity of the waves on the pole surface is of fundamental importance. In the present article its determination assumes, firstly, that the B/H relationship for the pole steel is given by formula (2) and, secondly, that the hysteresis loops are replaced by the equivalent sine curves and hysteresis losses in the steel are allowed for by Eq (2a). Other simplifying assumptions are also stated; they involve the use of formulae (4) to (8). The validity of formula (4) in this case is discussed. All the electromagnetic processes are considered separately on the direct and quadrature axes on the assumption that the armature reaction flux that penetrates the solid pole is known. The case of magnetisation on the direct axis is then considered at length. Electromagnetic waves radiate from the stator winding: they meet the surface

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The Design of a Solid-Poled Rotor

bounded by the rotor configuration between two successive pole centre-lines and are then propagated to more remote surfaces located on the end surfaces of the pole. As a result, all the surfaces of the pole are filled with lines of force which for a half-period are directed from one half of the pole to the other. As the wave penetrates into the solid pole the magnetic field intensity is rapidly damped and so only the surface layer of the pole conducts the armature reaction flux. Consequently, the magnitude of the magnetic flux is governed not by the section of the rotor steel but mainly by its perimeter. Investigations show that the field intensity along the pole-arc varies according to curve (2) of Fig 1, to which Eq (9) corresponds. An approximate expression is thereby derived for the perimeter and finally expression (10) for the magnetising force H. This expression makes no allowance for hysteresis; when the appropriate correction is made expression (11) is obtained. Then expression (15) is

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SOV/110-59-6-9/24

The Design of a Solid-Poled Rotor

derived for the active power absorbed by the pole. Expressions (17) and (18) are next derived for the amplitude of the currents flowing in the surface layers of the pole piece and the side surface of the pole respectively. The complex expression for the impedance of the pole derived from Eq (1), (14), (18) and (5) is given by expression (19). Magnetisation on the quadrature axis is then considered. As will be seen from Fig 2, flux entering the side surfaces of the solid pole cannot return through the pole and evidently closes through the surface layer of its end surfaces. Therefore, all surfaces of the pole participate in conducting the flux, all the lines of which necessarily pass through the section of the surface layer lying in the plane of symmetry of the pole. The distribution of magnetic field intensity on the surface of the rotor pole is shown by curve (1) of Fig 2, to which Eq (20) corresponds. Expression (21) is then derived for the total length of the surface layer conducting the given flux in the plane of symmetry of the pole. Methods similar to those used

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sov/110-59-6-9/24

The Design of a Solid-Poled Rotor

in the direct axis determinations then serve to derive Eq (22) to (25) for H, the active power absorbed, the amplitude of eddy-currents in the pole and the complex impedance to eddy-currents respectively. The method of referring the rotor characteristics to the stator winding is then considered. The damping action of the solid poles is considered as equivalent to that of two short-circuited windings, one on the direct axis and linked with the direct flux and the other on the quadrature axis and linked with the quadrature flux of the machine. Reference to the stator winding is based on the wellknown formula (26). For direct-axis magnetisation the current distribution along the pole-arc is given by formula (27); then formula (27a) is derived for the total current in a turn that would create the same rectangular mmf wave as the pole. Expression (28) is then derived for the equivalent electrical resistance of the pole and expression (29) for the reactance. The vector diagram of a machine with solid-poled rotor is

Card 5/6

The Design of a Solid-Poled Rotor

SOV/110-59-6-9/24

given in Fig 3 and is explained. This diagram is used to derive the expressions for the current resistance and reactance on the quadrature axis. The formulae given in the article were found to be in good agreement with test results. A numerical example of a calculation is given as an appendix. There are 6 figures and

SUBMITTED: 10th January 1958

Card 6/6

43366 s/056/62/043/005/022/058 B102/B104

24 (3-1)

Pik-Pichak, G. A.

Equilibrium shapes and fission of a rotating nucleus AUTHOR:

PERIODICAL: Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 43, TITLE:

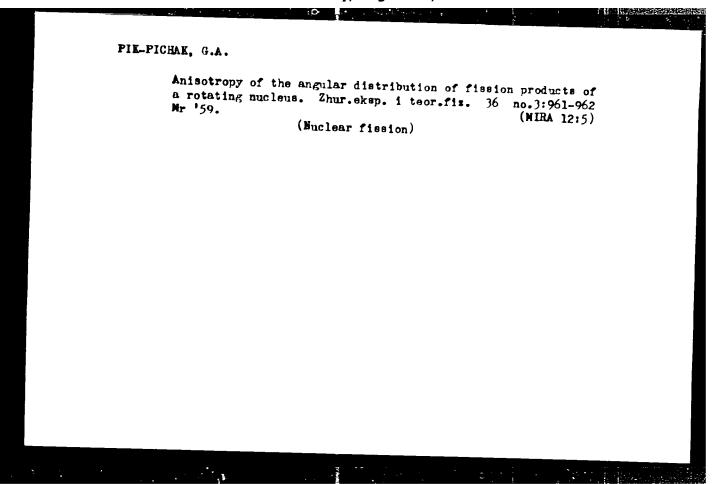
no. 5(11). 1962. 1701-1708

TEXT: The equilibrium shape and the stability of a rotating nucleus whose shape can be approximated by a triaxial ellipsoid are studied on the basis of the liquid-drop model. It is found that the zeroth ellipsoidal approximation can be applied in inventigating the stability of the nuclear equilibrium shape throughout the variation interval of the fission parameter $x = (3Z^2e^2/10R_0)/(4\pi R_0^20)$. R_0 is the radius of a sphere of equal volume and 0 is the surface tension parameter. At $x = x_0 = 0.81$ the type of instability, and therefore the relief of the total-energy surface, changes considerably. For x < x and y > y cr the instability does not lead to fission but to the formation of a new equilibrium position, in which Card 1/2

Equilibrium shapes and fission of a ... the nucleus has the shape of a triaxial ellipsoid. $y = (M^2/2I_0)/(4\pi k_0^2)$, ~/056/62/043/005/022/058 M is the nuclear angular momentum, ! the moment of inertia of a spherical nucleus, and y or is the critical energy of rotation above which the ellipsoid becomes unstable. The expression for the fission barrier as derived in a previous paper (ZnETF, 42, 1294, 1962), which is valid for y~ycr, can be applied only to a very narrow range of x. For the flattened ellipsoid considered y cr = 0.2851; this value being not far from the energy of rotation of a spherical nucleus at which the equilibrium shape becomes unstable $y_{cr} = 0.2784$. For nuclei with $x \approx 1$ and x = 0, for which the true shape and the exact value of the potential energy are known, the zeroth ellipsoidal approximation is proved to be applicable. There are 3 figures and 4 tables. The most important English-language reference is: R. Beringer, W. J. Knox, Phys. Rev., 121, 1195, 1961. SUBMITTED: April 14, 1962 Card 2/2

PIK-PICHAK, G.A.

Nucleon emission by a rotating nucleus. Zhur.eksp.i teor. fiz. 38 no.3:768-772 Mr '60. (MIRA 13:7) (Nucleons) (Nuclei, Atomic)



21(7) AUTHOR:

Pik-Pichak, G. A.

\$07,57-36-3-67,71

TITLE:

The Anisotropy of the Angular Distribution of the Fission Fragments of a Rotating Nucleus (Anizotropiya uglovogo raspredeleniya oskolkov deleniya vrashchayushchegosya yadra)

PERIODICAL:

Zhurnal eksperimental noy i teoreticheskoy fiziki, 1000, Vol 36, Nr 3, pp 961 - 962 (USSR)

ABSTRACT:

The present paper ("Letter to the Editor") intends to carry out a theoretical investigation of fission probability and fragment distribution. If fission probability depends on the angular momentum of the nucleus, it is necessary, in order to be able to determine the dependence of the anisotropy on x, to take also other participating processes into account, i.e. in the present case, neutron evaporation $(x=(Z^2/A)/(Z^2/A)_{cr}; Z = charge, A= mass of the fissioned$ nucleus). First, the fission probability $\mathbf{w_f}(\mathbf{j},\mathbf{K},\mathbf{f})$ is in-

Card 1/3

vestigated, where j denotes the momentum, K - the projection of j on to the symmetry axis of the nucleus in the direction dw, and b- the angle between the incident particle beam and

The Anisotropy of the Angular Distribution of the Fission SOV/56-36-3-67/71 Fragments of a Rotating Nucleus

the flying-off direction of the fragments. For the angular distribution $w_f(\theta)d\omega$, ω = sin θ d θ a formula is in the following derived, and for anisotropy

$$\begin{split} \sigma_{\mathbf{f}}(0)/\sigma_{\mathbf{f}}(\pi/2) &= \sum_{\mathbf{i}=0}^{\mathbf{N}} w_{\mathbf{f}\mathbf{i}}(0) / \sum_{\mathbf{i}=0}^{\mathbf{N}} w_{\mathbf{f}\mathbf{i}}(\pi/2); \\ &\stackrel{\mathbf{i}}{\max} \qquad \mathbf{i} \\ w_{\mathbf{f}\mathbf{i}} &= \int_{0}^{\mathbf{j}} \mathrm{jdj} \psi_{\mathbf{i}}(\mathbf{j}) \prod_{S=0}^{\mathbf{N}} \Gamma_{\mathbf{n}\mathbf{s}} / (\Gamma_{\mathbf{n}\mathbf{s}} + \Gamma_{\mathbf{f}\mathbf{s}}(\mathbf{j})) \text{ is obtained, where i} \end{split}$$

denotes the number of the cascade step, Γ_n the neutron width, and Γ_f the fission width with a given momentum. The ratios for $\Gamma_f > \Gamma_n$ (fission without neutron evaporation) and $\Gamma_f < \Gamma_n$ are discussed. The author finally thanks D. P. Grechukhin for discussions and I.Halpern for placing experimental material at his disposal. The author received the paper for correction on January 27, 1959 on which occasion he, together

Card 2/3

APPROVED FOR RELEASE: Tuesday, August 01, 2000

CIA-RDP86-00513R0012408

The Anisotropy of the Angular Distribution of the Fission 307/36-76-3-67/71 Fragments of a Rotating, Nucleus

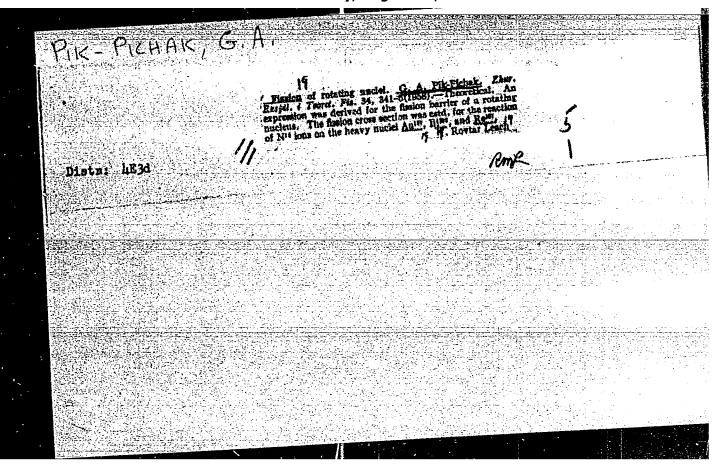
with V. M. Strutinskiy, made several supplementary comments on the subject, which concerned the comparison between experimental data and numerical computations. There are 3 references, 2 of which are Soviet.

SUBMITTED:

November 18, 1959

Card 3/3

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001240



"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001240

(UCUR Acad. Sc.)

"Fission Barrier of Actating Nuclei,"

paper submitted at the A-U Conf. on nuclear meacti ns in redium and low energy phrsics, Accom, 19-27 nov 57.

5100 0104 Fin-Fichun, G. A. Biddien bermer of a retain, nucleau .unic.10.1: Enarmal embjortmental/roj i teoretioneanoj likini, V. 44, 5, 1702, 1274-1304 TENT: The flowion barrier of rotating nuclei has eften been examined already (dubin 34, 341, 1950; 30, 795, 1959; 0. d. Miches, Thesic Thir. of Culti, 4-740), 1960), but not the range of application for the expression to outliness. The first outest of the present work was to determine this. It was further sought to establish which characteristics of the retailing madicus are amenuale to an experimental and theoretical comparison. This nucleum is regarded as a drop of namegamously onurged insoftpressible flow in which the Coulomb and Surface energies are calculated on the accumption that the shape of the nuclear may, if hereesary, vary originaly from the where the fission parrier L. is found to be the difference between the nuclear energy at the saddle point $\beta_{20} = -\frac{1}{6}z, \quad \beta_{22} = -\frac{1}{6}z^2 - \frac{1}{24}z^2 - \frac{1}{24}z^2$ Cara 1/3

"APPROVED FOR RELEASE: Tuesday, August 01, 2000

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and the energy at the equipperum point $\hat{p}_{11} = \hat{p}_{22} = \hat{p}_{23} = \hat{p}_{33} = \hat$

presenting off the expansion after the term of the required expression of

$$E_{I} = \Delta u_{\text{nep}} - \Delta u_{\text{min}} = \frac{z_{0}}{132} z^{3} - \frac{1}{3} z_{0} + \frac{1012}{34425} z^{4} + \frac{1}{3425} z^{2} + \frac{1}{3} y \sqrt{z^{2} + \frac{15}{3} y - \frac{1017}{3445} z^{2} y - \frac{15}{12} y^{2} - \frac{1034}{34425} z^{3} \sqrt{z^{2} + \frac{15}{12} y + \frac{1077}{3245} zy} \sqrt{z^{2} + \frac{15}{12} y}.$$

and function of application of this revolutions to accomply, carry amplies than for the case of a non-sociating nucleus for the species of application (17) is assisted for the majority of nucleus for the species for the majority of nucleus for the species for the majority of nucleus for the species for the majority in

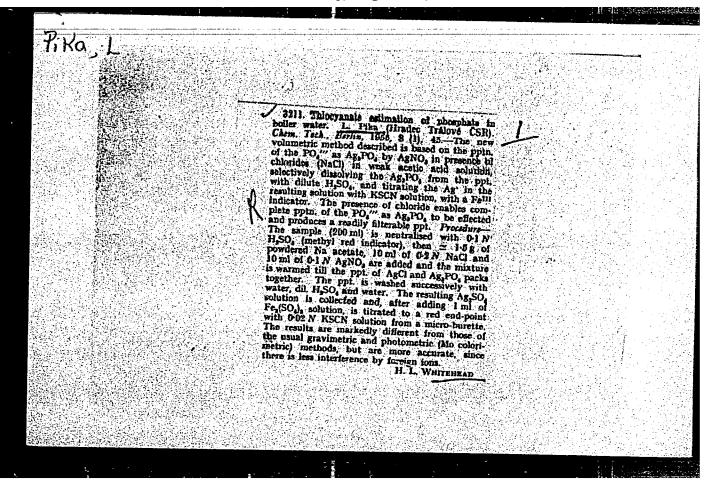
$$E_1 = \frac{98}{135} z^3 - \frac{11398}{34425} z^4 + \left(-\frac{7}{6} z - \frac{13379}{50407} z^2, y + \left(-\frac{5}{8} \frac{1}{z} - \frac{67}{2047} y^2, \frac{1217}{2047} y^2 \right) \right)$$

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Fishion barrier of a rotating ... S,056/62/042/005/024/050 3104.5104 3104.5104 3104.5104 3104.5104 3104.5104 3104.5104 3104.5104 3104.5104 3104.5104 3104.5104 3104.5104 3104.5104 3104.5104 3104.5104 3104.5104 3104.5104 3104.5104 3104.5104 3104.5104 3104.5104 3104.5104 3104.5104 3104.5104 3104.5104 3104.5104 3104.5104 3104.5104 3104.5104 3104.5104 3104.5104 3104.5104 3104.5104 3104.5104 3104.5104 3104.5104 3104.5104 3104.5104 3104.5104 3104.5104 3104.5104 3104.5104 3104.5104 3104.5104 3104.5104 3104.5104 3104.5104 3104.5104 3104.5104 3104.5104 3104.5104 3104.5104 3104.5104 3104.5104 3104.5104 3104.5104 3104.5104 3104.5104 3104.5104 3104.5104 3104.5104 3104.5104 3104.5104 3104.5104 3104.5104 3104.5104 3104.5104 3104.5104 3104.5104 3104.5104 3104.5104 3104.5104 3104.5104 3104.5104 3104.5104 3104.5104 3104.5104 3104.5104 3104.5104 3104.5104 3104.5104 3104.5104 3104.5104 3104.5104 3104.5104 3104.5104 3104.5104 3104.5104 3104.5104 3104.5104 3104.5104 3104.5104 3104.5104 3104.5104 3104.5104 3104.5104 3104.5104 3104.5104 3104.5104 3104.5104 3104.5104 3104.5104 3104.5104 3104.5104 3104.5104 3104.5104 3104.5104 3104.5104 3104.5104 3104.5104 3104.5104 3104.5104 3104.5104 3104.5104 3104.5104 3104.5104 3104.5104 3104.5104 3104.5104 3104.5104 3104.5104 3104.5104 3104.5104 3104.5104 3104.5104 3104.5104 3104.5104 3104.5104 3104.5104 3104.5104 3104.5104 3104.5104 3104.5104 3104.5104 3104.5104 3104.5104 3104.5104 3104.5104 3104.5104 3104.5104 3104.5104 3104.5104 3104.5104 3104.5104 3104.5104 3104.5104 3104.5104 3104.5104 3104.5104 3104.5104 3104.5104 3104.5104 3104.5104 3104.5104 3104.5104 3104.5104 3104.5104 3104.5104 3104.5104 3104.5104 3104.5104 3104.5104 3104.5104 3104.5104 3104.5104 3104.5104 3104.
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The letter than the second second

JCV/96-58-5-17/17

AUTHOR: Pika, L., Engineer, Doctor

TITLE:

The Conversion of Iron Oxides in Boiler Water (Frevio-

shcheniye okislov zheleza v ko lovog vode)

PERIODICAL: Teploenergetika, 1958, Mr 5, pp 71 - 72 (USSR)

ABSTRACT: The article discusses the formation of alphaned

gamma iron oxides in feed-water.

Tests were made to ascertain the behaviour of oxides in a water. Pure samples of iron hydroxide more prepared to samples of steel of 10 x 2 x 200 m were placed in a tube 25 mm diameter and 250 mm long made of steel RSN-12002 (0.15% C, 0.3% Mn, and not more than 0.3% Si, 0.05% P and 0.05% S). Solutions of various composition were them to the tubes and air was expelled by boiling, after which the tubes were sealed. The tubes and steel samples mean in war analyses, including ordinary low-carbon steel a distribute steel.

The tubes with specimens and solutions here leaded for at 305 °C so that the internal pressure was about 10 % the tubes and samples lad cooled, they term employed results given in Tables 1, 2 and 3. For the case, of The hydrated iron oxide was reduced more or less on less and the hydrated iron oxide was reduced more or less on less and the hydrated iron oxide was reduced more or less on less and the hydrated iron oxide was reduced more or less on less and the hydrated iron oxide was reduced more or less on the hydrated iron oxide was reduced more or less of the hydrated iron oxide was reduced more or less of the hydrated iron oxide was reduced more or less of the hydrated iron oxide was reduced more or less of the hydrated iron oxide was reduced more or less of the hydrated iron oxide was reduced more or less of the hydrated iron oxide was reduced more or less of the hydrated iron oxide was reduced more or less of the hydrated iron oxide was reduced more or less of the hydrated more oxide wa

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iron oxide promotes the correspond totale. At all and temperatures, the non-magnetic iron oxide is only and into magnetic; this should be taken into accompanion.

There are 3 tables and 1 German references.

ASSOCIATION: Chekhoslovatskip colled white looking relative (Czechoslovatian Research institute)

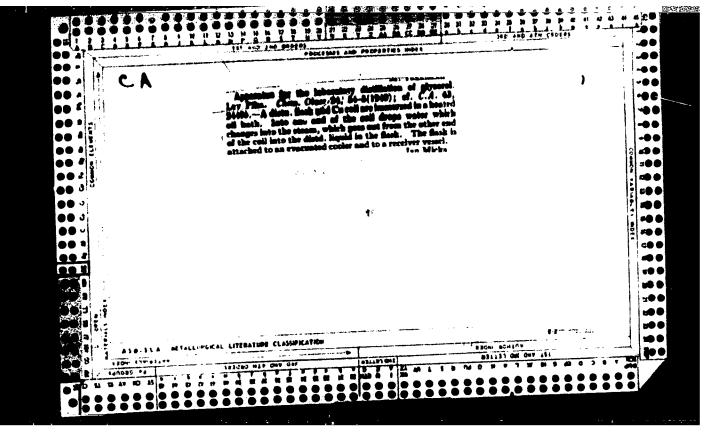
1. Feed water-Impurities 2. Boiler tuber-stores:

3. Iron exides-lest results

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001240

	The polarity of corner and the from or the Fourier by Contract of
: 1	The polarity of comer and the Iron on the Sea. O, in alreline solutions. L. Pira (Staati, Inst. Kesselforsch. Konia- risiz Creek. Well. Ver. Grosskersteenteer 1930, 433 Gu and PerO, are cathodic toward Pe in neutral or acid solns., and anodic in alk. soln. Inside the boiler installation,
	the walls closest to the fire are anodic. Pe.O. becomes anodic in places where alk, deposits accumulate. Hannah E. Rosenthal

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001240



NOSKOVA, M.; PIKA, L., ins., dr.

Photometric determining of small quantities of SiO2. Energetika Cz 11 no.10:503 0 61.

PIKA, Lev, inz., dr.

Examination of oxygen corrosion in an aqueous medium. Energetika Cz 12 no.7:368-369, 392 Jl 162.

PIKA, Lov. dr., ins.

Sampling Keed water and other liquids. Energetika Cz 12 no.12: 669-670 D '62.

1. Prvni brnenska strojirna, savody Klementa Gottwalda, Hradec Kralove.

美国的国际

PIKA, Lev.

Oxidation of ammonia aqueous solutions with oxygen at 320°. Zhur. prikl.khim. 34 no.7:1621-1622 Jl '61. (MIRA 14:7)

1. Institut energeticheskogo oborudovaniya, Gradets Kralove, Chekhoslovakiya.

(Ammonia) (Oxygen)

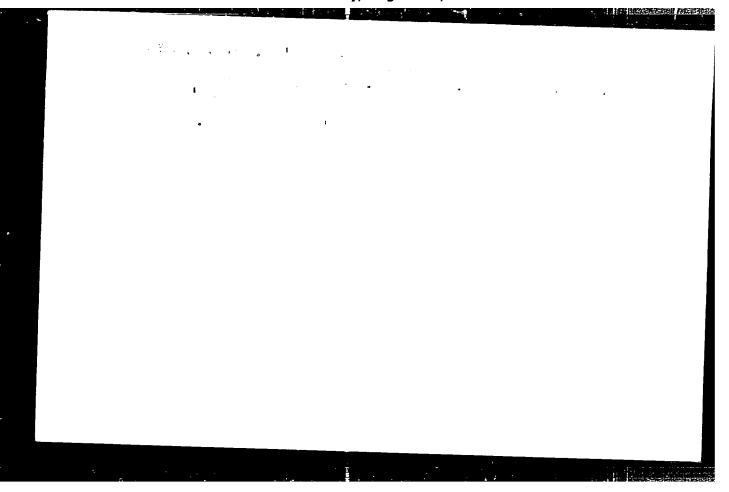
PIRA, L.

"Presumatic Indication of the Specific Gravity of Pulverized Ceal and Other Substances," p. 91.

(Paliva, Vol.33, No.4, Apr. 1953, Praha.)

So: Menthly List of Sast European Accessions, Vol.2, No.9, Library of Congress, September 1953, Unel.

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001240



BALON, I.D., kand.tekhn.nauk; ROMANENK(, N.T., inzh.; YUPKO ! D., inzh.; BOLKUNOV, Ye.P., inzh., TULUYEVSKAYA, T.A., inzh., ASTAFUROV, P.I., inzh.; VOLOVIK, A.V., inzh. Prinimali ucnastiye: BAKAYZV, A..., VOKHNIK, A.R.; KOLOS, V.D.; KAYSTRO N.P. [deceased]; LITVINENKO, V.I.; MAKARCHENKO, N.M.; ONOPRIYENKO, V.P.; PALAGUTA, V.P.; PIKA, V.S.; RAGIN, B.I.; ROMANCHENKO, Ye.I.; SAYENKO, S.D.; STOLYAR, V.V.; SKORIK, N.M.; TOROPENKO, P.D.

Characteristics of making ferromanganese in large capacity blast furnaces and the effect of slag conditions on basic technical and economic indices. Stal' 23 no.12:1069-1073 D '63. (MIRA 17:2)

1. Ukrainskiy nauchno-issledovatel'skiy institut metallov i zavod "Zapo-rozhstal".

THE INCOMESSION OF THE PROPERTY OF THE PROPERT

KUCERA, Vaclav, inz.; PIKAL, Josef

Report on the meeting of the 7th Openission of the Organization for Collaboration of Railways in Warsaw, September 17-27, 1962. Zel dop tech 11 no.2:57-58 163.

一個日本公司的基本公司的

PIKALA, I.

Education to labor safety on collective farms. p. 253.

MECHANISACE ZEMEDELSTVI. Praha, Czechoslevakia. Vel. 9, no. 11, Nev. 1959.

Monthly list of East European Accessions (EEAI) LC, Vol. 9, no. 1, January 1960. Uncl.

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001240

PIKALA, Ivan, PhDr.

Industrial safety and working environment. Tech praca 15 no.2:114-116 F *63.

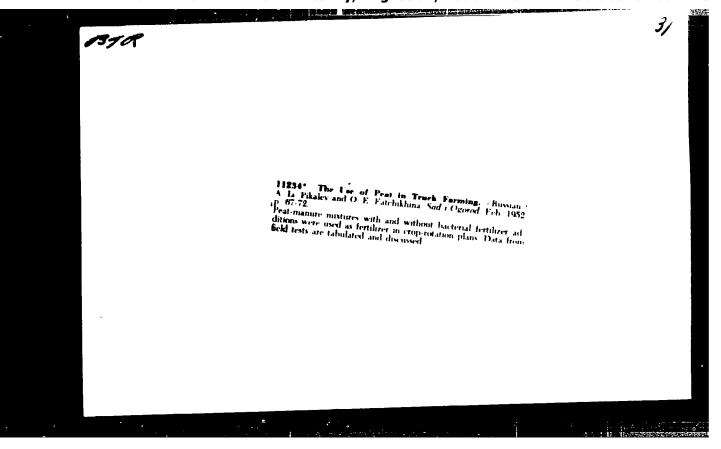
1. Vyskumny ustav bezpecnosti prace, Bratislava.

PIKALEV, A.

Peat Industry

Mechanization of peat winning for firt lizer. Kolkh. proiz. 12 Ma. , 1 52.

9. Monthly List of Russian Accessions, Library of Congress, November 1452 /293, Uncl.



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PIKALEV, A. YA; FATCHIKHINA, O. YE.

Peat

Utilization of peat in vegetable gardening., Sad i og., no. 2, 1952.

9. Monthly List of Russian Accessions, Library of Congress, May 1952, Uncl.

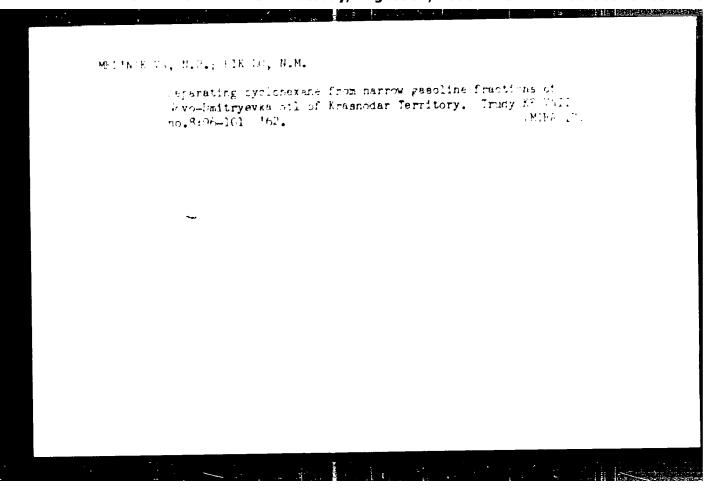
PIKALEVA, V.Ya.; KOTOMINA, G.L.

Use of gas anesthesia in the analgesic stage for the treatment of massive postoperative pulmonary atelectasis. Khirurgiia 39 no.7182-85 Jl 63 (MIRA 16:12)

1. Iz fakul tetskoy khirurgicheskoy kliniki (zav. - prof. V.I. Kolesov) I Leningradskogo meditsinskogo instituta imeni akademika I.P.Pavlova.

VASIL'YEVA, L.I.; PIKALO, G.I.

Significance of zonal correlation for solving problems of planning and developing the oil and gas condensate fields of Krasnodar Territory. Trudy KF VNII no.ll:71-77 '63. (MIRA 17:3)



YUKHTUYEVA, M., telyatnitea; PIKALOV, A.M., red.; TEKHTIYEKOV, M.I., tekhn. red.

[Let us raise calves by the group sucking method] Vyrashchivaem teliat metodom gruppovogo podsosa. Gorno-Altaisk, Gorno-Altaiskoe kmizhnoe izd-vo, 1960. 20 p. (MIRA 14:12)

l. Kumalyrskaya ferma Shebalinskogo olenesovkhoza (for Yukhtuyeva). (Calves)

L 16676-65 EWT(1)/EWA(h) Peb RAEM(1)/ESD(t)/RAEM(d)/SSD/AFWL/AS(mp)-2 AGCESSION NR: AF4047474 S/0120/64/000/005/0130/0132	
AUTHOR: Pikalov, A. P. β TITLE: Sawtooth oscillator with a 1-3,600-sec period	
SOURCE: Pribory* i tekhnika eksperimenta, no. 5, 1964, 130-132	
TOPIC TAGS: sawtooth oscillator, magnetic spectrometer, nuclear magnetic resonance	
	1 4 4 1 4 4 5 5 6 7 5 3 5
ABSTRACT: A special sawtooth oscillator used for modulating the magnetic field in a nuclear-magnetic-resonance spectrometer is described. A linear discharge in a nuclear-magnetic-resonance spectrometer is described. A linear discharge of a capacitor in a d-c amplifier with a gain of 2×10^4 or higher is used. A of a capacitor in a d-c amplifier with a gain of 2×10^4 or higher is used. A simplified connection diagram is shown. The oscillator can develop triangular, simplified connection diagram is shown.	
ABSTRACT: A special sawtooth oscillator used for modulating the magnetic field ABSTRACT: A special sawtooth oscillator used for modulating the magnetic field in a nuclear-magnetic-resonance spectrometer is described. A linear discharge in a nuclear-magnetic-resonance spectrometer is described. A linear discharge of a capacitor in a d-c amplifier with a gain of 2x104 or higher is used. A simplified connection diagram is shown. The oscillator can develop triangular,	A STATE OF THE PROPERTY OF THE

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Sawtooth-voltage nonlinearity, 0.5% for a 5-min interval or 1% for a 50-min interval. "In conclusion, the author wishes to thank N. M. Kocharyan, L. L.				
Dekabrun, and Yu. Ya. Sl	namonin Orig. art. has: 1	figure and 1 formula.		
ASSOCIATION: TONI field	co-tekhnicheskaya laboratoriy	A AN ArmssR (Central		
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FIKALOV, A.P.

Autodyne for a nuclear magnetic resonance spectrometer with quartzresonator frequency stabilization. Dokl. AN Arm. SSR 35 no.4:167-171 '62. (MIRA 17:1)

1. Fiziko-tekhnicheskaya laboratoriya AN Armyanskoy SSR.

KOCHARYAN, N.M.; KIRAKOSYAN, Z.A.; SHAROYAN, E.G.; PIKALOV, A.P.

Polarization of Appears of cosmic radiation under the earth. Dokl.
AN Arm. SSR 29 no.1:17-21 '59. (MIRA 12:11)

1. Pizicheskiy institut Akademii nauk Armyanskoy SSR. 2. Calen-korrespondent AN Armyanskoy SSR (for Kocharyan).

(Mesons)

KOCHARYAN, N.M.; PIKALOV, A.P.; KAGRAMANYAN, A.V.; MARKOSYAN, E.A.

Effect of the degree of stretch of polymethyl methacrylate on the magnitude of the second moment of nuclear magnetic resonance. Dokl. AN Arm. SSR 40 no.1:25-29 '65. (MIRA 18:7)

1. TSentral'naya fiziko-tekhnicheskaya laboratoriya AN ArmSSR.
2. Chlen-korrespondent AN ArmSSR (for Kocharyan). Submitted
March 30, 1964.

THE RESERVE STREET, ST

KOCHARYAN, N.M.; KIRAKOSYAN, Z.A.; SHAROYAN, E.G.; PIKALOV, A.P.

Polarization of M+-mesons in cosmic rays in the region of high energies. Zhur. eksp. i teor. fiz. 38 no.1:18-21 Jan '60.

(MIRA 14:9)

1. Fizicheskiy institut Akademii nauk Armyanskoy SSR. (Mesons) (Cosmic rays)

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28-56-1-29, 41

网络图1817年来经验中的公司经验

AUTHORS:

Gurevich, A.Ya., and Fixalcy, B.I., Engineers

TITLE:

Towards the Revision of Standards for Tight Screw Inread (K peresmotry normaley na tugiye rez'by)

PERIODICAL: Standarticatelya, lyfe, Nr 1, pp 70-75 (USSa)

ABSTRACT:

The article treats the parameters and tolerances of nighprecision tight metric screw thread extensively used for "steel-to-steel" and "steel-to-aluminum" screw connections in modern engines. The jurpose of the discussion is to contribute to the levelopment of new "normals" the projects for which are already or pared. The authors point out that the International Standard organization recommendations for standard profile of thresced noies must be accepted. The "UTS" threads now used by plants must be revised and included into 'normal' stardards. The institutes are now working on technical data for cutting the "UTS" thread. There are

figures and . charts.

AVAILABLE: Library of Congress

Card 1/1

1. Screw threads-Standards 2. Standardization-USSR

PIKALOV, B.I.; GUREVICH, N.Ya.

Tight "steel-in-steel" threaded joints for hole systems. Standartizatsiia 26 no.4:9-13 Ap '62. (MIRA 15:3)

(Screw threads)

8(6) AUTHORS:

SOV/115-59-3-7 (9)

Pikalov, B.I., and Petrosov, V V.

TITLE:

The Checking of Blade Blanks of Gas Turbine Engines (Kontrol' zagotovok lopatok gazoturbinnykh ivigate-

ley)

PERIODICAL:

Izmeritel'naya tekhnika, 1959, Nr 3, pp 5-6 - USSP

ABSTRACT:

The application of new cast and forged materials for the blades of modern gas turbine engines leads to residue deformations in the blade blanks. Therefore it is necessary to determine the actual residue lead formations in blade blanks and to adjust the dies and press molds. The authors mention briefly three methods which might be used for checking blade blanks and point out their disadvantages. One consists of cutting the blade blank into sections which are inspected by an optical projector method, another method consists in applying an optical dividing head while the third method, using rigid profile patterns may be used only when the tolerance exceeds more than 2 mm. At the authors, plant a new method was deviced

Card 1/2

THE RESIDENCE OF THE PROPERTY OF THE PROPERTY

SOV/115-59-3-3724

The Checking of Blade Blanks of Gas Turbine Engines

and introduced for checking blade blanks. The blade blanks are controlled by universal-sectional needle patterns (universal no-shornyy shablon - USSh' which are used instead of rigid profile gages. The needle patterns are installed in the universal sectional control device developed by B.I. Pikalov according to the system USP (universal no-sbornyye prisposobleniya - universal sectional devices) $\sqrt{\rm Ref} \ 1^{7}$. Figure 3 shows such a device with a needle pattern. The authors explain in some more detail the performance of this method in combinations with a projector They state that it might be applied also for checking other parts of a complicated configuration. There are 2 diagrams, I photograph and I Soviet reference.

Card 2/2

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PIKAICV, F. I.

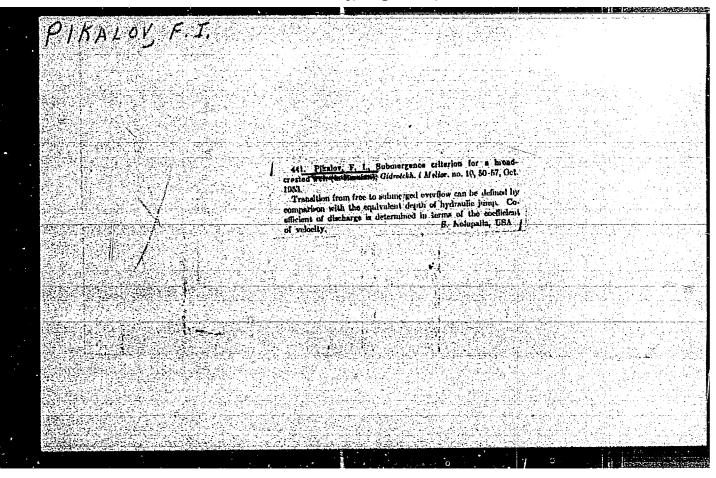
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